



S5AP THRU S5MP

Surface Mount Standard Rectifiers

Features

- ◆ Low profile package
- ◆ Ideal for automated placement
- ◆ Glass passivated chip junction
- ◆ High forward surge capability

Mechanical Data

Case: SMP Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: 260°C/10 seconds

Polarity: Cathode line denotes the cathode end

Mounting Position: Any



SMP

Maximum Ratings & Electrical Characteristics

Ratings at TA = 25°C unless otherwise specified

Characteristic	Symbol	S5AP	S5BP	S5DP	S5GP	S5JP	S5KP	S5MP	Units
Peak repetitive reverse voltage	VRRM	50	100	200	400	600	800	1000	V
RMS reverse voltage	VRMS	35	70	140	280	420	560	700	V
DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward output current	IF(AV)	5							A
Peak forward surge current, 8.3ms single half-sine-wave, @TJ = 25°C	IFSM	150							A
Rating for fusing (t < 8.3ms)	I ² t	93.4							A ² sec
Maximum instantaneous forward voltage @ 5A	VF	1.1							V
Maximum Reverse current Rated VR	IR	@TA = 25°C							μ A
		@TA = 125°C							
Operating junction temperature range	TJ	- 55 ---- + 150							°C
Storage temperature range	TSTG	- 55 ---- + 150							°C



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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

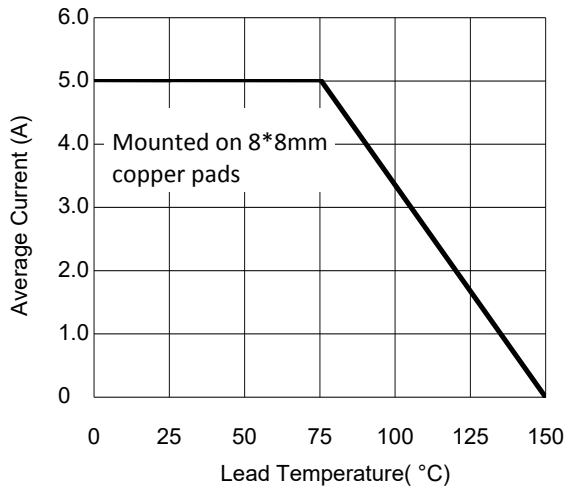


Fig.2- Surge Current Derating Curve

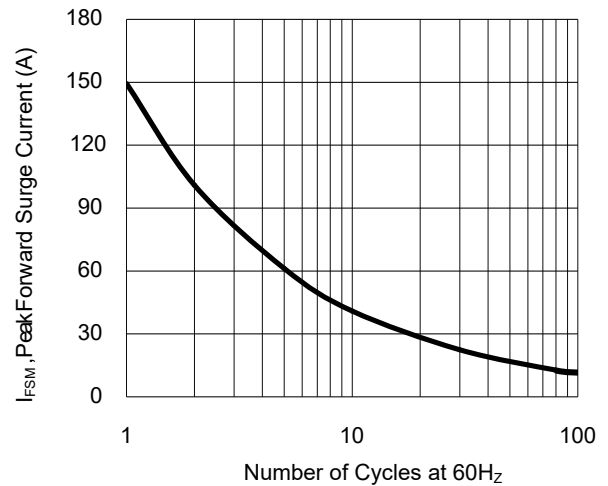


Fig.3- Typical Forward Voltage Characteristic

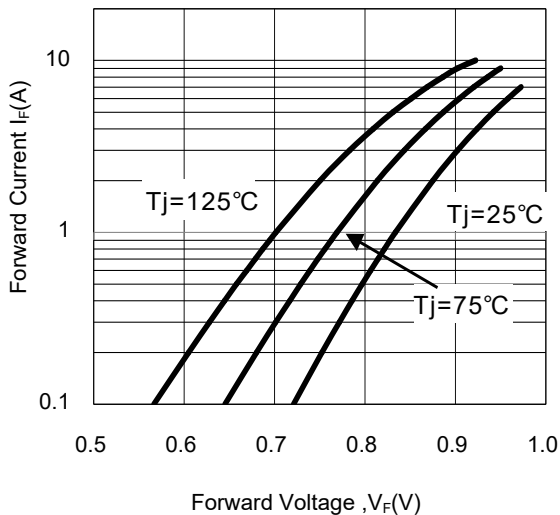
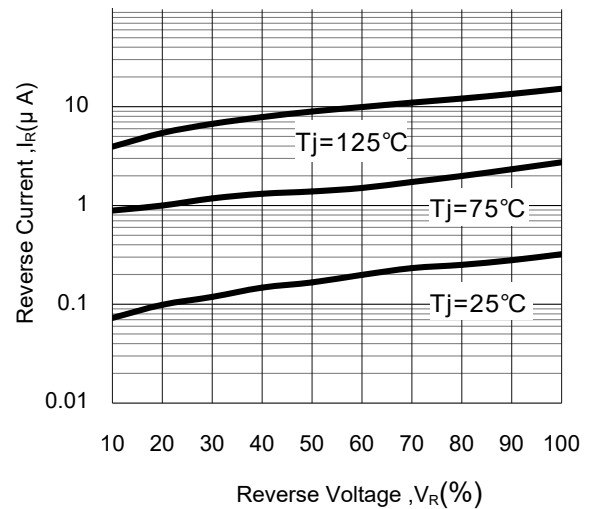


Fig.4- Typical Reverse Characteristic



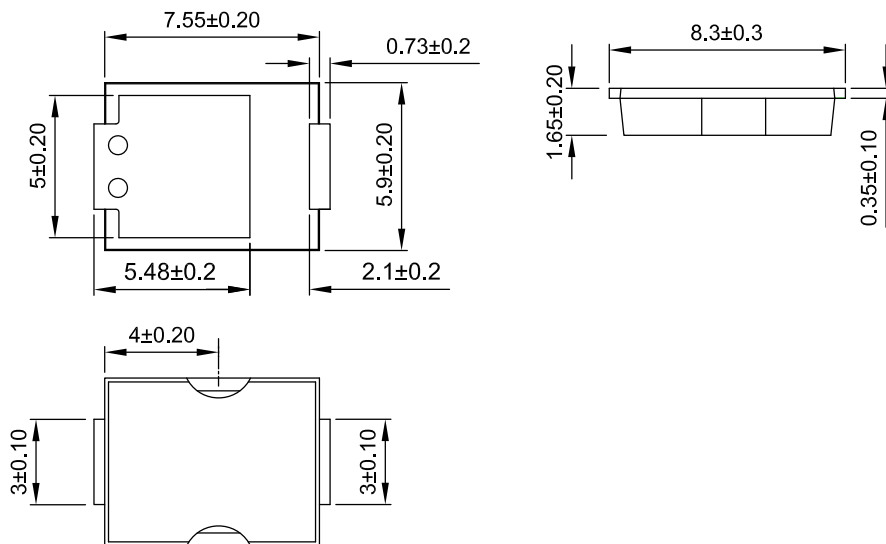


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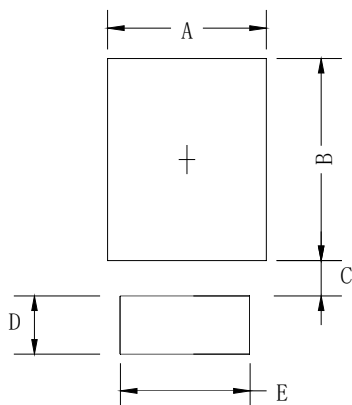
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Package Outline Dimensions(unit:mm)

SMP



Mounting Pad Layout(unit:mm)



Dim	Millimeters
A	5.40
B	6.40
C	1.25
D	1.70
E	4.00

Ordering Information

Part No.	Marking	Package	Shipping
S5AP	S5AP	SMP	3000PCS /Tape&Reel
S5BP	S5BP	SMP	3000PCS /Tape&Reel
S5DP	S5DP	SMP	3000PCS /Tape&Reel
S5GP	S5GP	SMP	3000PCS /Tape&Reel
S5JP	S5JP	SMP	3000PCS /Tape&Reel
S5KP	S5KP	SMP	3000PCS /Tape&Reel
S5MP	S5MP	SMP	3000PCS /Tape&Reel

